

FIG. 1A

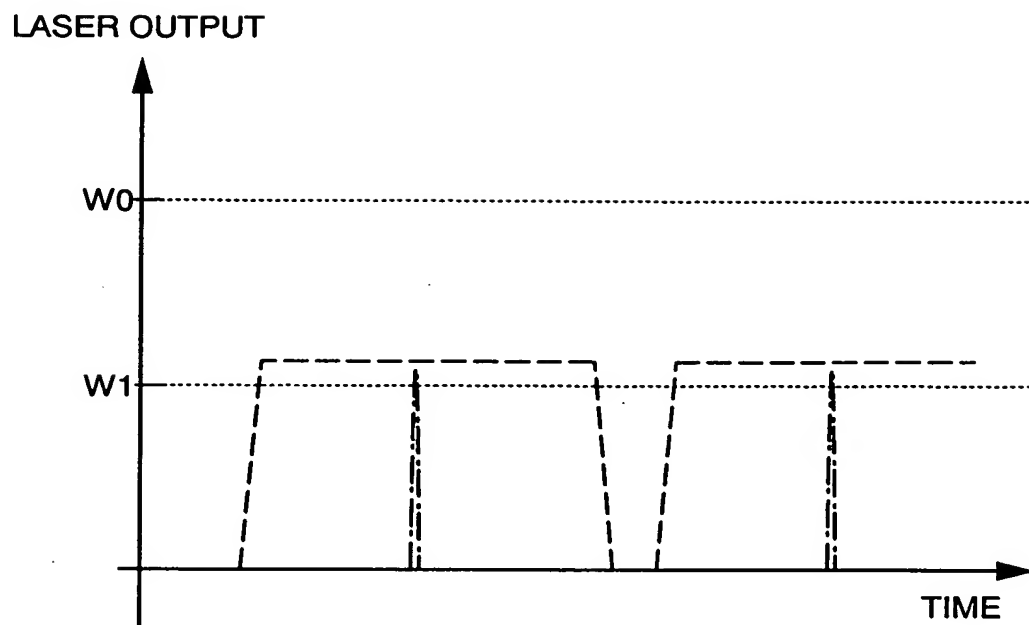
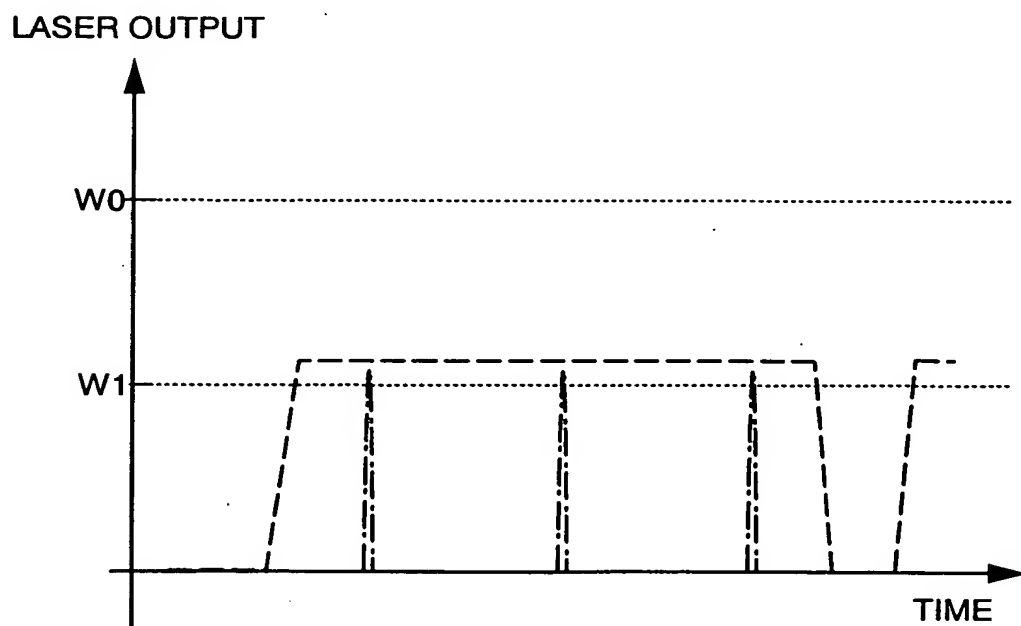


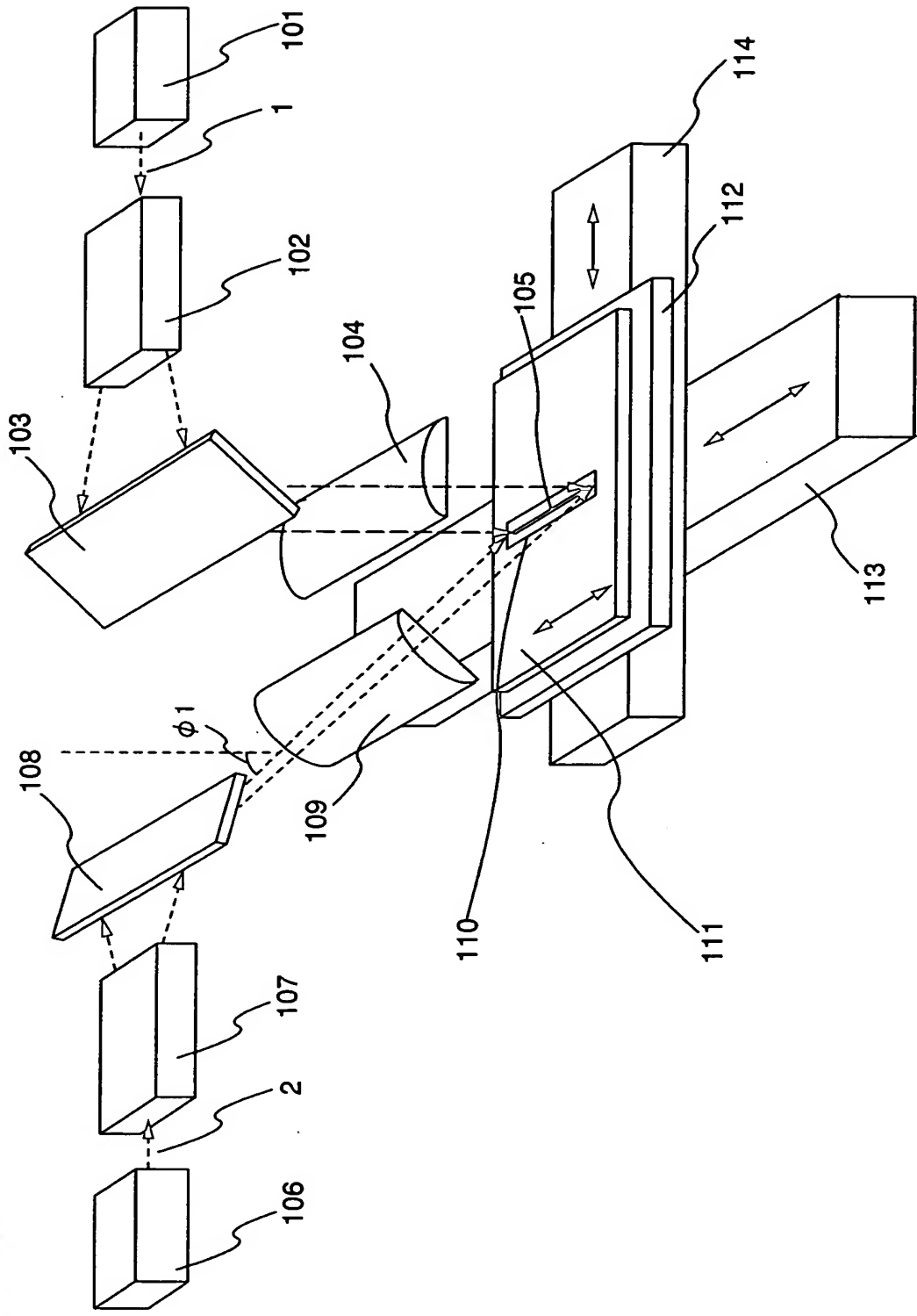
FIG. 1B



----- 1ST PULSE LASRE

----- 2ND PULSE LASER

FIG. 2



A side view cross-section of a semiconductor device. It shows a substrate at the bottom, a semiconductor film on top of it, and a patterned layer above the film. A cross-hatched region is located within the patterned layer. Labels include: SIDE VIEW, 206, 205, 205, 212, SEMICONDUCTOR FILM, and SUBSTRATE.

FIG. 4

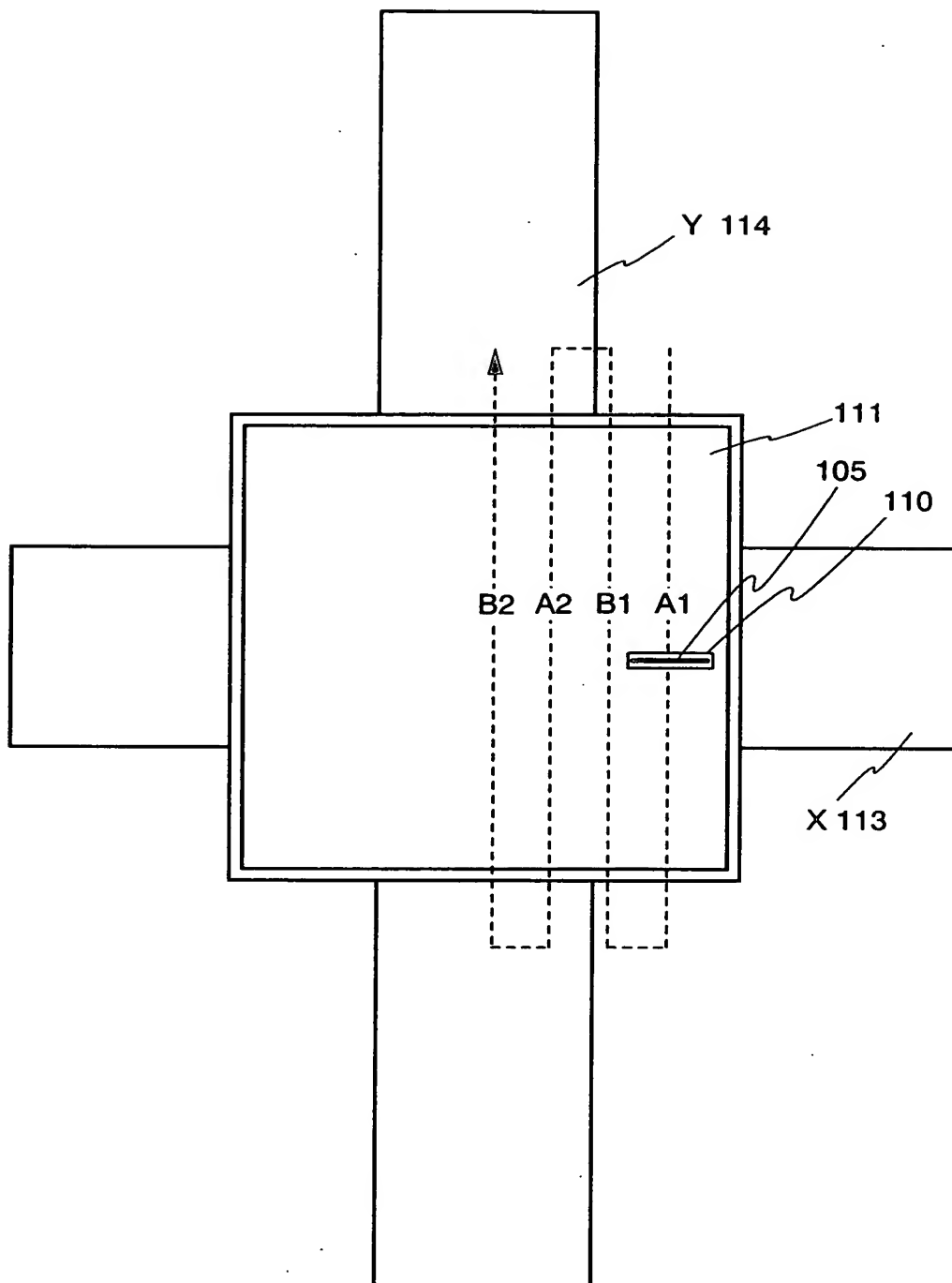


FIG. 5A

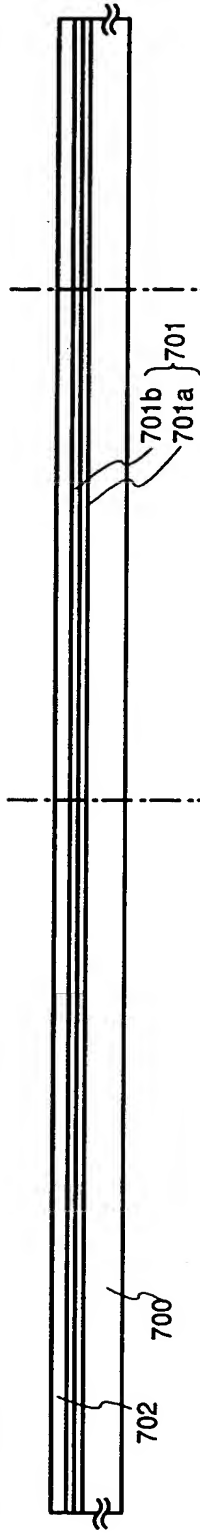


FIG. 5B

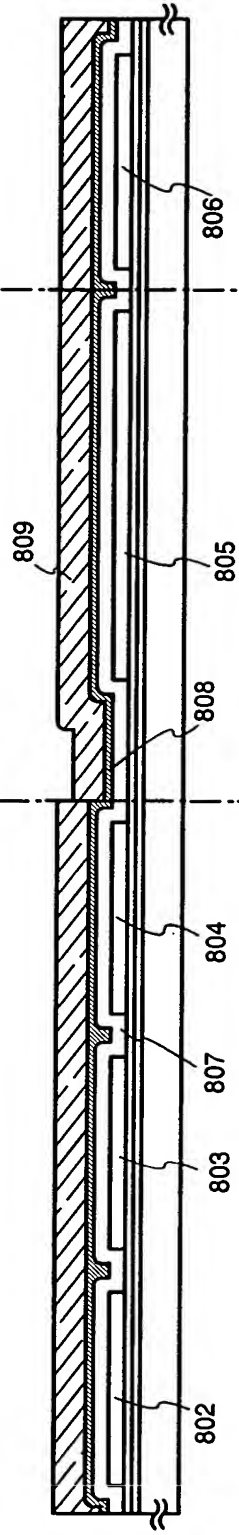


FIG. 5C

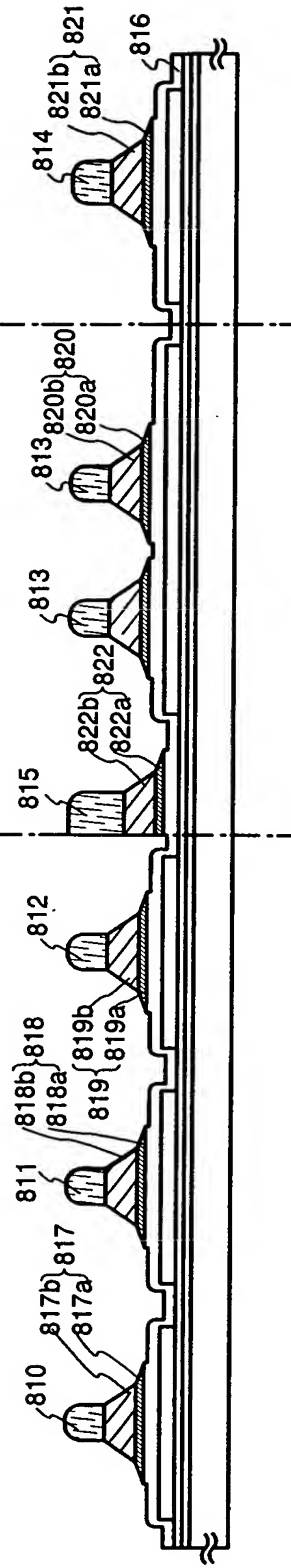


FIG. 6A

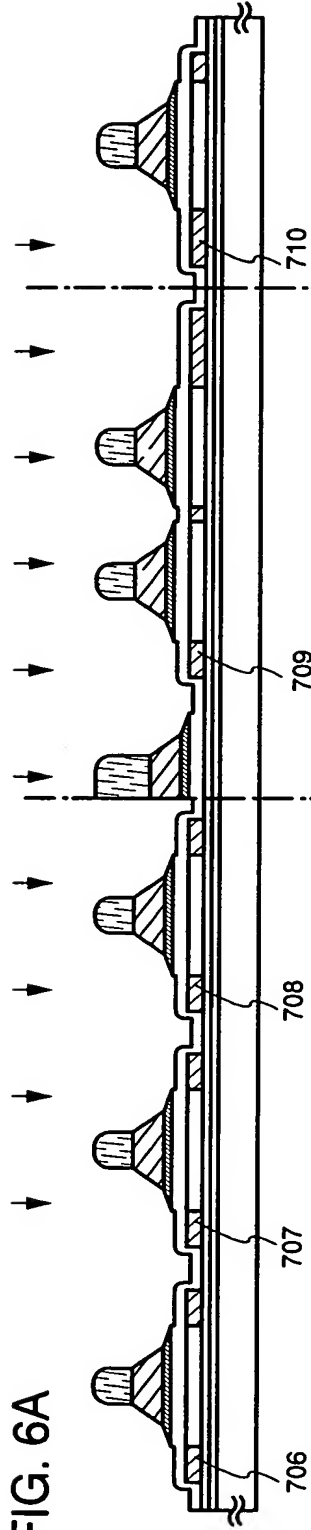


FIG. 6B

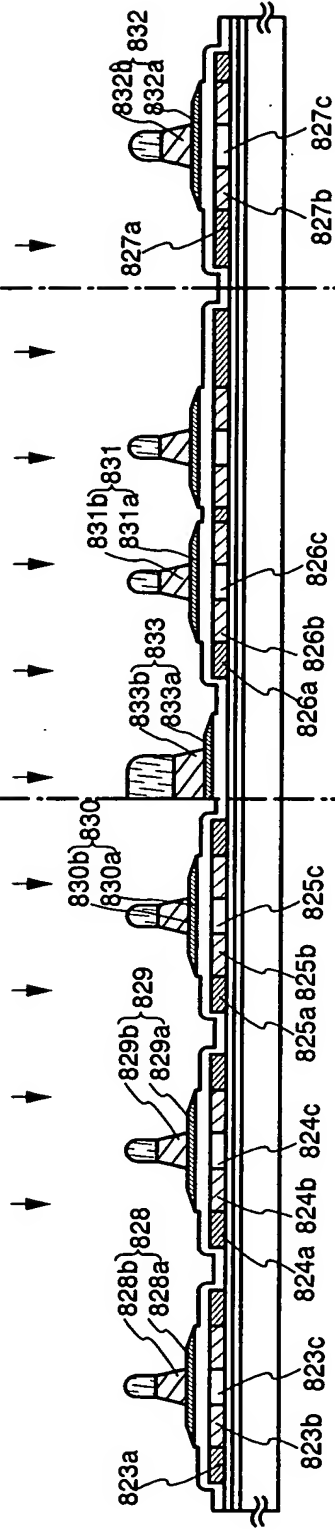


FIG. 6C

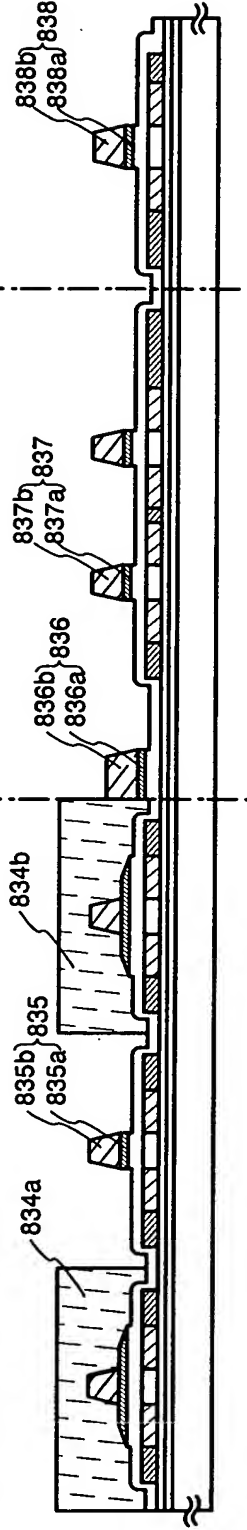


FIG. 7A

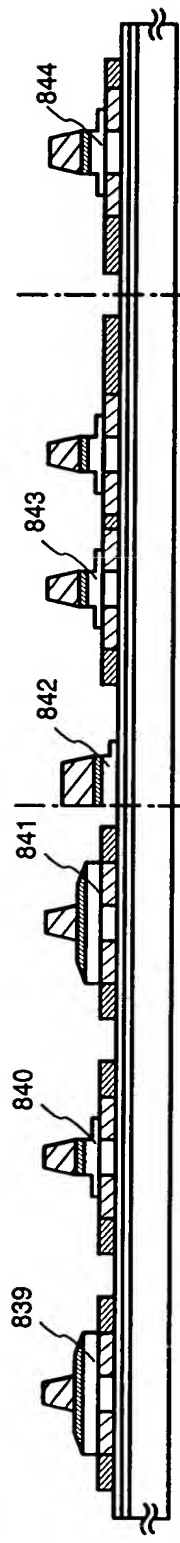


FIG. 7B

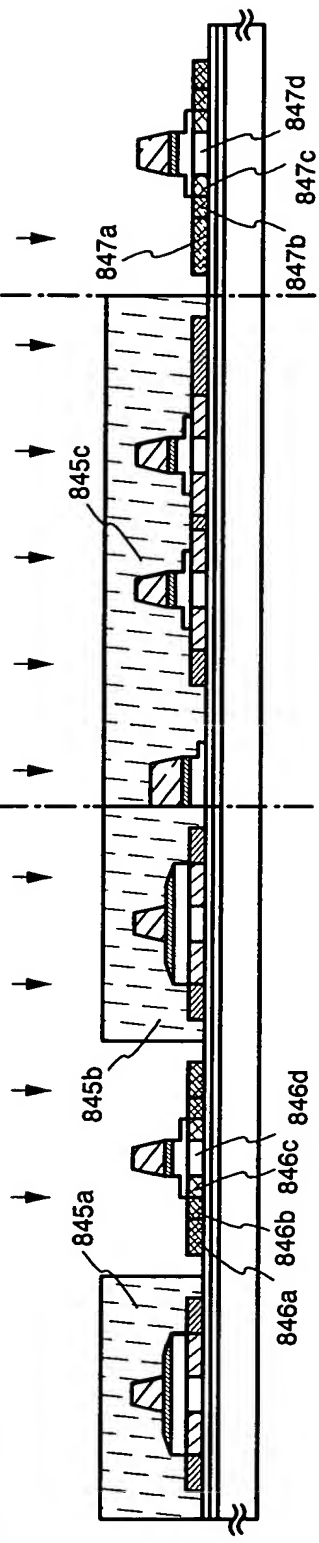


FIG. 7C

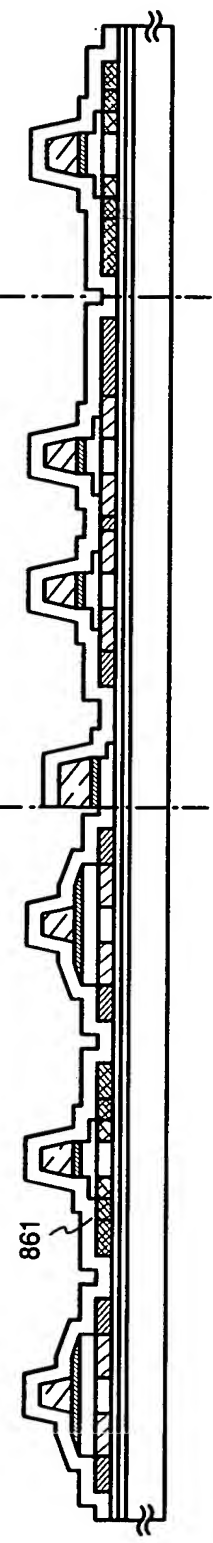


FIG. 8

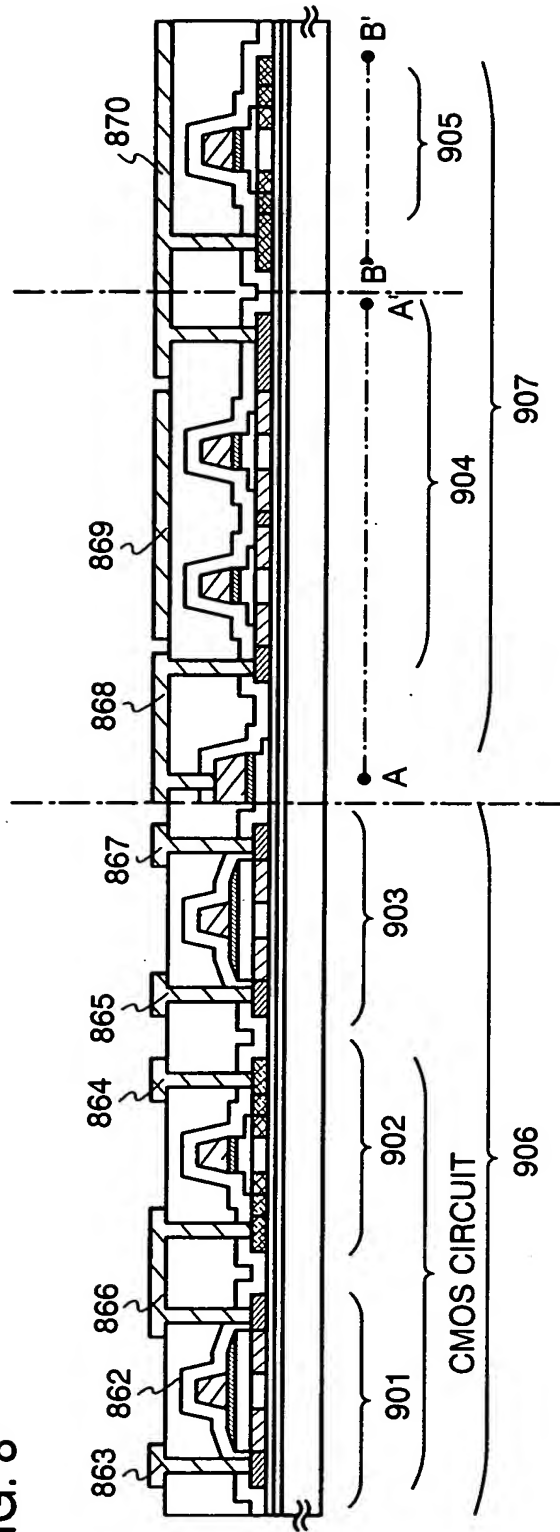




FIG. 9

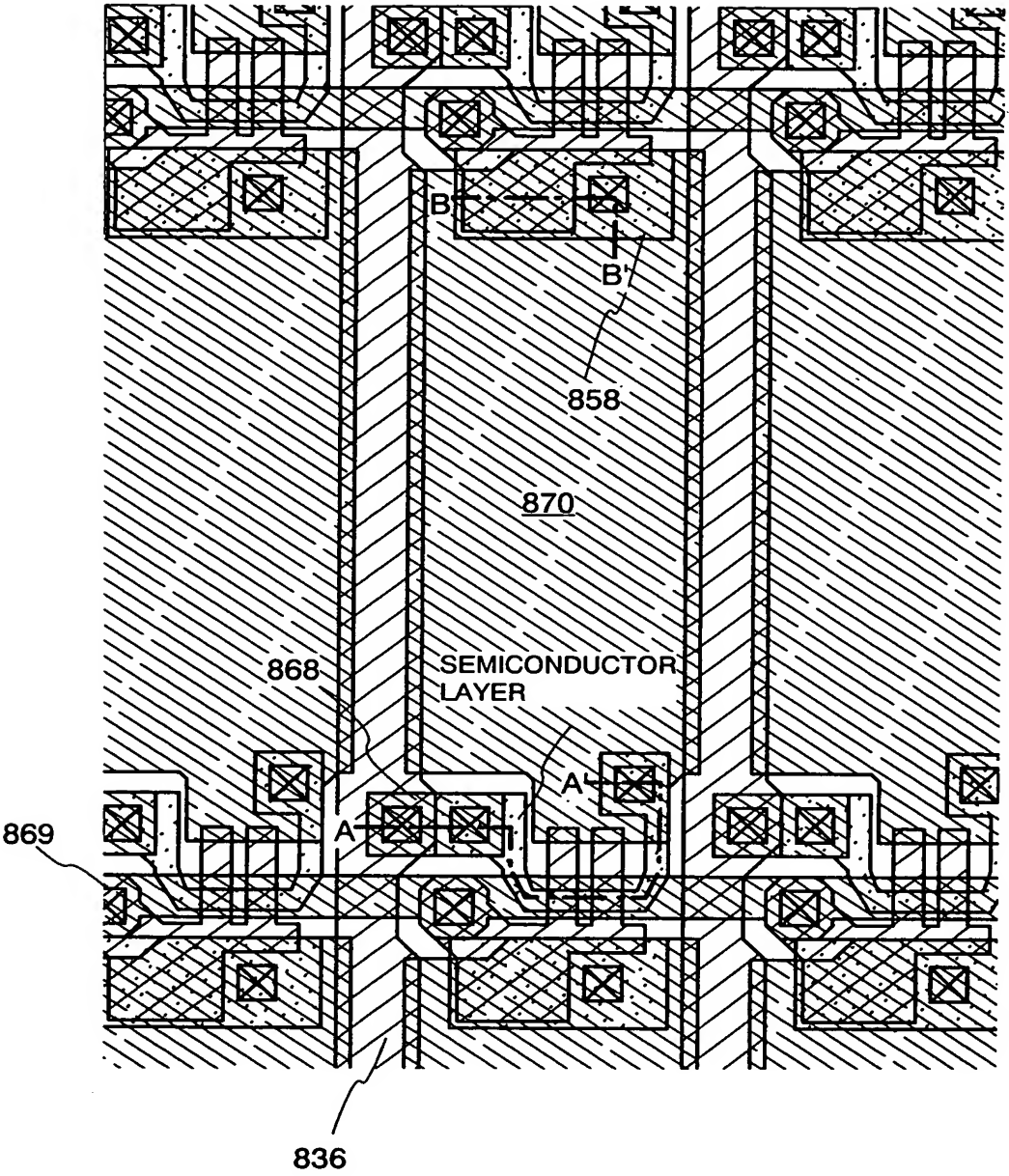


FIG. 10

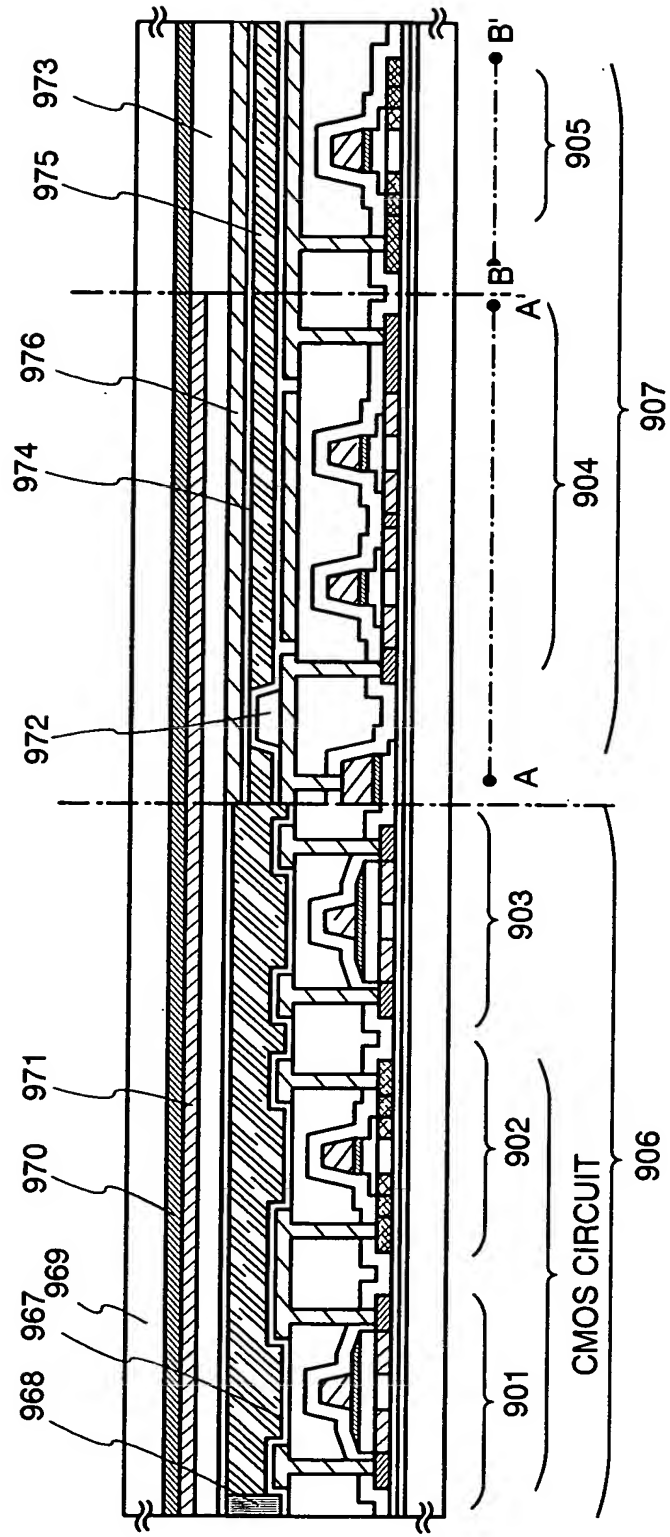


FIG. 11

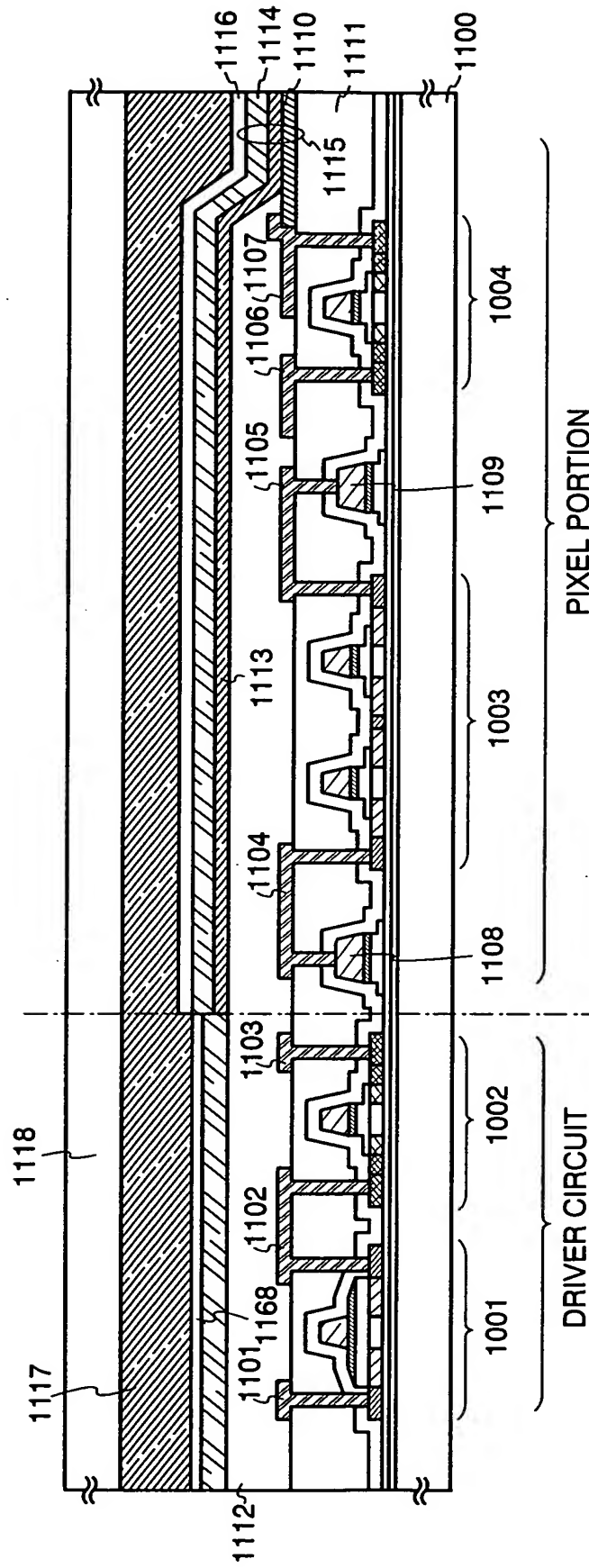


FIG. 2A is a cross-sectional view of a multi-layered structure. The structure includes a substrate 1305 with a patterned layer 1304 on its top surface. Above layer 1304 is a stack of layers 1301, 1302, and 1206. A dashed rectangle 1207 is defined within the stack of layers 1301, 1302, and 1206. A dashed line A-A' indicates a cross-section through the structure.

This cross-sectional view shows the internal structure of the light-emitting device. The device is bounded by a top substrate 1303 and a bottom substrate 1304. A central light-emitting layer 1113 is sandwiched between two electrode layers 1114 and 1116. The electrode layer 1114 is connected to a power supply terminal 1001, which is further connected to a power supply terminal 1002. The electrode layer 1116 is connected to a power supply terminal 1004, which is further connected to a power supply terminal 1005. A light-emitting region 1207 is defined within the light-emitting layer 1113. An arrow labeled 1206 indicates the "LIGHT EMITTING DIRECTION". The device is shown in a cross-section along line A-A'.

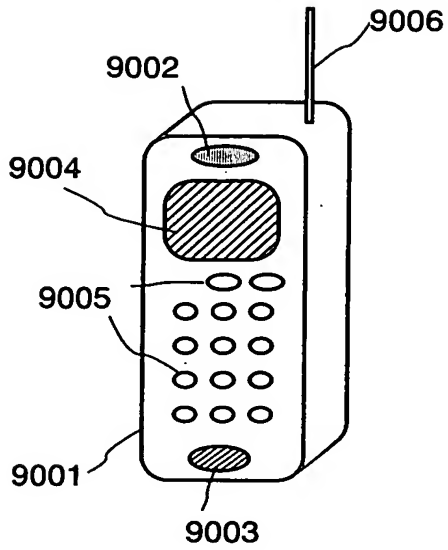


FIG. 13A

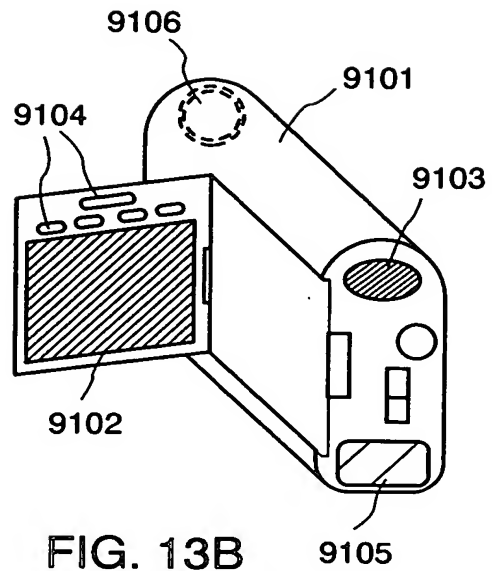


FIG. 13B

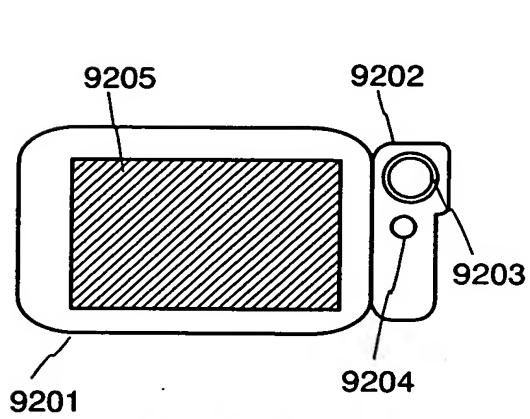


FIG. 13C

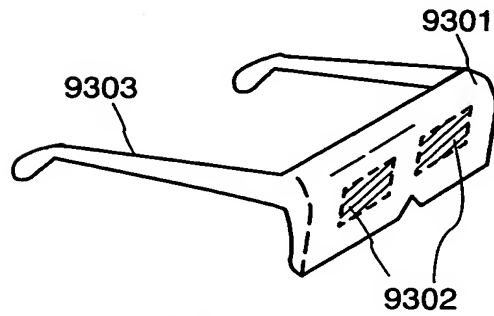


FIG. 13D

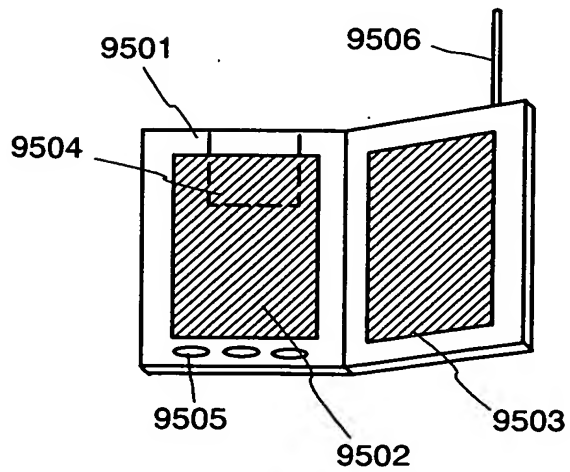


FIG. 13E

FIG. 14A

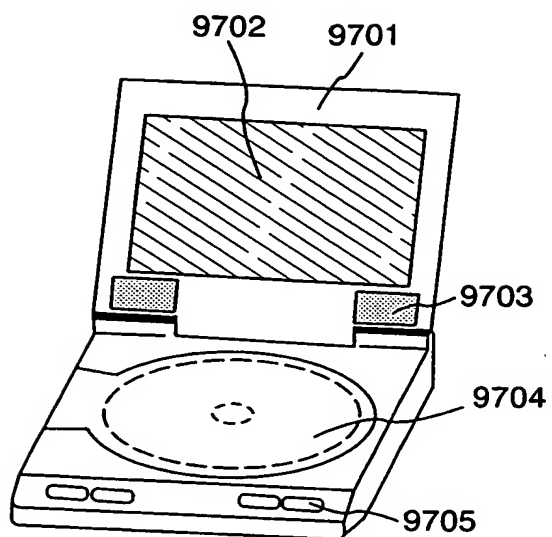


FIG. 14B

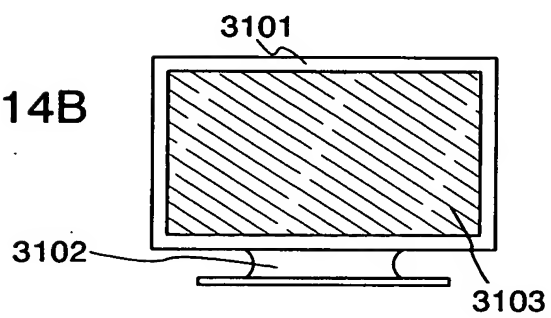
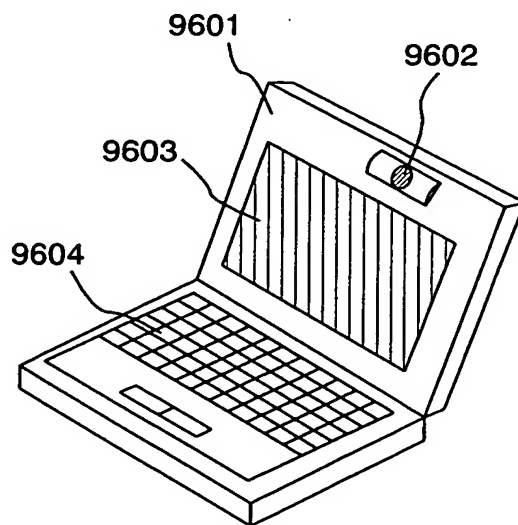


FIG. 14C



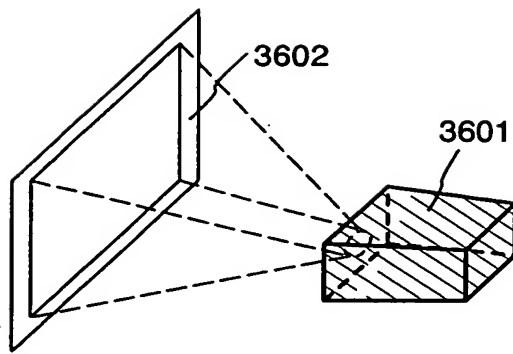


FIG. 15A

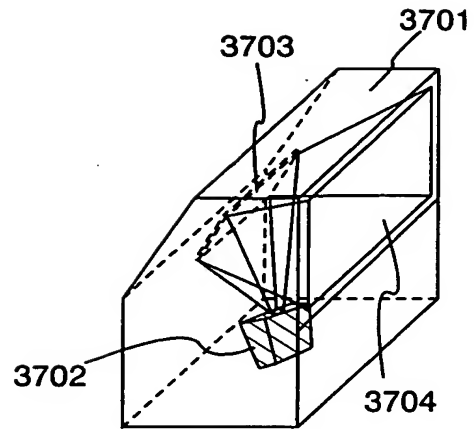


FIG. 15B

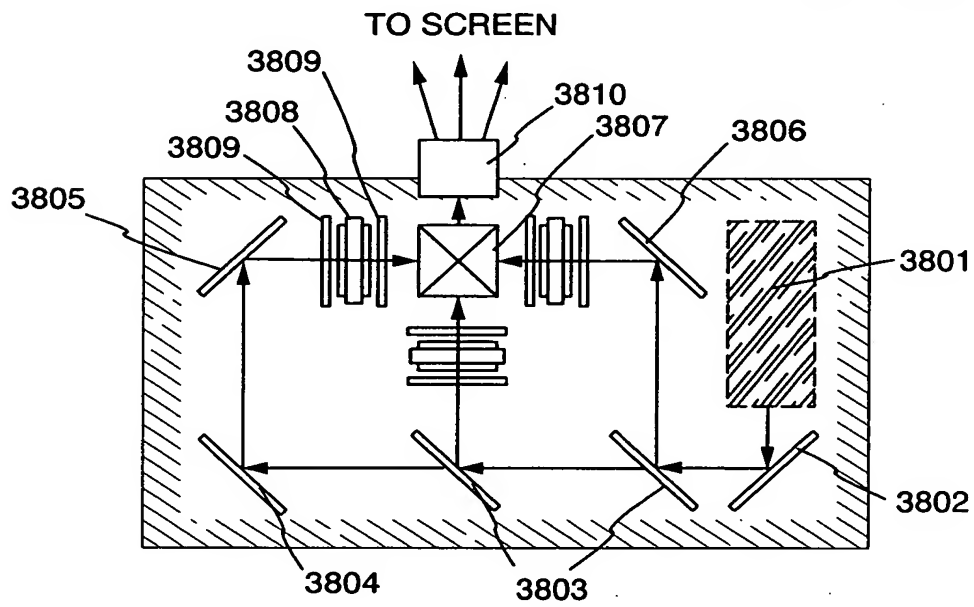


FIG. 15C

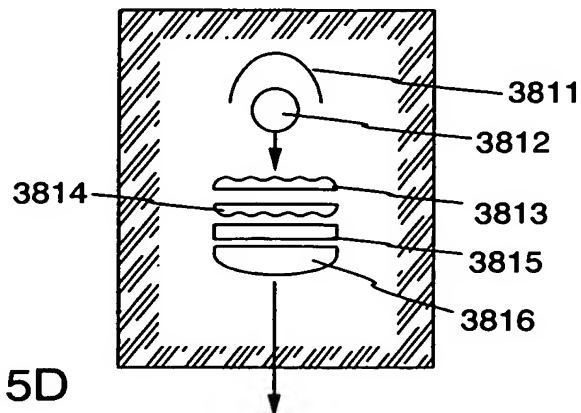


FIG. 15D